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BT—15—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (SE) (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

SOFTWARE ENGINEERING

(Distributed Operating System)

(Monday, 21-11-2016) **Time : 2.00 p.m. to 5.00 p.m.**

Time—Three Hours *Maximum Marks*—100

N.B. :— (*i*) *All* questions are compulsory.

(*ii*) Figures to the right indicate full marks.

(*iii*) Assume suitable data if necessary.

1.	(*a*)	What is distributed computing system.	10
	(*b*)	Explain network types.	10
		Or	
	(*c*)	Explain synchronization in message passing.	10
	(*d*)	What are the desirable features good distributed file system.	10
2.	(*a*)	Explain process migration.	10
	(*b*)	Explain architecture of QSM.	10
		Or	
	(*c*)	Explain clock synchronization.	10
	(*d*)	What are features good message passing system.	10
3.	(*a*)	Explain encoding and decoding of messages.	10
	(*b*)	Explain advantages of process migration.	10
		Or	
	(*c*)	Explain replacement strategy in DSM.	10
	(*d*)	Explain file accessing models.	10
4.	(*a*)	Explain event ordering.	10
	(*b*)	Explain deadlock.	10

P.T.O.

Or

(*c*) Explain distributed algorithm for mutual exclusion. 10

(*d*) Explain features of good scheduling algorithm. 10

5. Write short notes on the following (any *four*) : 20

(*i*) Location transparency

(*ii*) Wait for graph

(*iii*) Multidatagram message

(*iv*) Group communication

(*v*) Implementation of logical clocks

(*vi*) Granularity.